

Utah Water Supply Outlook Report

April 1, 2004









Photos of Johnson Valley and Lake Fork 3 snow courses. Left side - March 1 Survey, Photos on the right April 1, Survey - record snowpack losses for March. Photos by Ray Wilson and Randy Julander, Snow survey, NRCS, USDA

Water Supply Outlook Reports and Federal - State - Private Cooperative Snow Surveys

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How forecasts are made

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snowcourses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.

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STATE OF UTAH GENERAL OUTLOOK Apr 1, 2004

SUMMARY

Records are made to be broken. March 2004 is one we never want to see again! Recall at the beginning of the month, snowpacks were near average and we were pretty relaxed thinking that even if the worst observed March were to occur, we would still be in reasonable shape. What was the possibility that March 2004 would be worse than the worst? That is precisely what has happened the worst March non-accumulation ever. Almost all watersheds in Utah have experienced a March where they have lost some snowpack but not like this! Every basin across the state except the Sevier had the worst March snowpack decrease ever, in some cases double and triple the worst ever and the Sevier had its second worst ever with 1972 being the only exception. Actual snowpack losses ranged from -2.4 on the Weber to -5.4 over southwest Utah. All this in what is normally one of the heaviest snowpack accumulation months of the year. Several sites in northern Utah are now at or near record lows for April 1 snowpack including Burts Miller Ranch (first recorded zero on April 1, started in 1937), Stillwater Camp, Blacks Fork Junction and Chalk Creek #3. Having lost a record 25% to 60% of March snowpack, streamflows barely rose in most locations and in fact, the Sevier River at Hatch (USGS data) has yet to come up to average flow conditions and average flows during March are typically pretty small to begin with! The reason for snowmelt not converting to streamflow is primarily due to the soil moisture deficit and snowpack losses to evapotranspiration and sublimation. Most streams have had only marginal responses to the record snowmelt. Snowpacks now range between 56% of average in southern Utah to 75% of average on the Provo/Jordan River watershed. Precipitation for March ranged from an abysmal 20 in southern Utah to a pathetic 45% on the Weber, bringing seasonal precipitation, (Oct-Mar) to 87%. Soil moisture remains a concern as there was very little precipitation accumulation prior to the onset of snowpacks. This condition is, in most watersheds about half the deficit of a month ago. Soil moisture deficits range from 2.5 to 6 inches in the upper 24 inches of soil. Low reservoir storage is also a concern with total reservoir storage at 45% of capacity, down 8% (428,000 Acre-Feet) from last year. 428,000 AF would be the entire reservoir capacity of the Sevier River Basin and then some. Areas of greatest concern are the Bear and Sevier River basins with current storage of 8% and 31% respectively. Streamflow forecasts range from 7% to 71% of average. Surface Water Supply Indexes range from 2% on the Bear River. Sevier and Moab areas to 45% over the western part of the Uintah Basin.

SNOWPACK

April first snowpacks as measured by the NRCS SNOTEL system range from 56% over southwestern and southeastern Utah to 75% on the Jordan River/Utah Lake Watersheds. Most areas are comparable to last year. The bright and optimistic side of the snowpack numbers is that we are not even close to the worst April 1 snowpack ever, with the exception of the upper Bear River Watershed.

PRECIPITATION

Mountain precipitation during March was much below average statewide (33%). In the north it was much below normal (45%) and in the south, only 25%. This brings the seasonal accumulation (Oct-Mar) to 87% of average statewide.

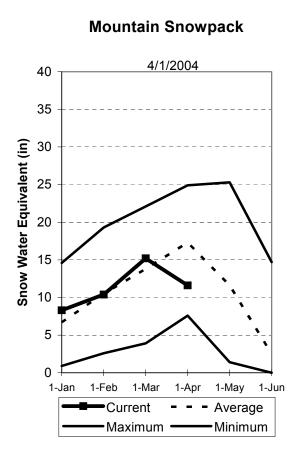
RESERVOIRS

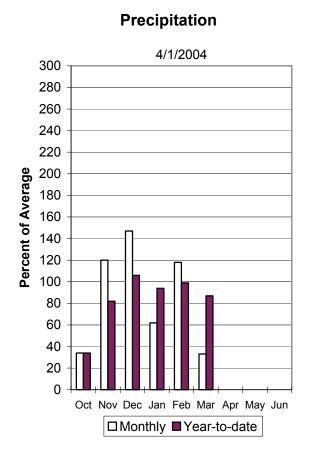
Storage in 41 of Utah's key irrigation reservoirs is at 45% of capacity, up only 4% from last month. This is down substantially (8%) from last year indicating heavy use of reservoir storage to make up

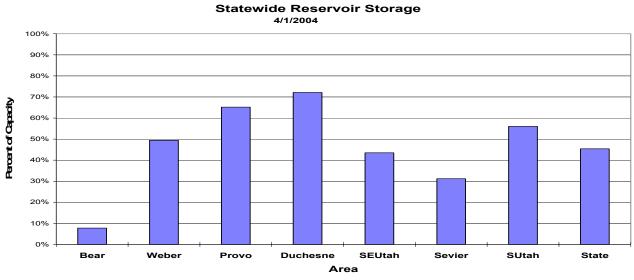
the streamflow deficit. Most reservoir operators are utilizing a conservative strategy, storing as much water as possible.

STREAMFLOW

Snowmelt streamflows are expected to be below to much below average across the entire state of Utah this year. Forecast streamflows range from 7% on the Bear at Stewart dam to 71% on Wheeler Creek, a stark contrast from forecasts issued last month. Most flows are forecast to be in the 30% to 60% range. Overall water supply conditions are below to much below normal.



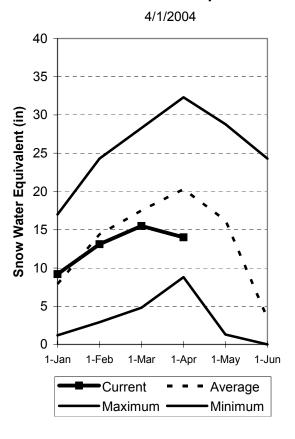




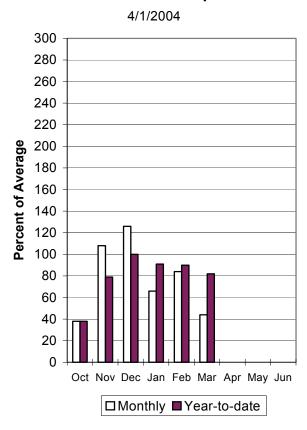
Bear River Basin Apr 1, 2004

Snowpacks on the Bear River Basin are near average at 61% of normal, about 91% of last year and 30% less than last month. Specific sites range from 0% to 120% of normal. Low elevation snowpack is gone with a first ever zero reading at Burts Miller Ranch. March precipitation was much below average at 44%, which brings the seasonal accumulation (Oct-Mar) to 82% of average. Soil moisture levels in runoff producing areas indicate about 4.1 inches of deficit in the upper 2 feet of soil. Forecast streamflows are for much below normal (7%) to below normal volumes (57%) this spring. Reservoir storage is extremely low at 8% of capacity, 21% less than last year. The Surface Water Supply Index is at 2% for the Bear River, or 98% of years have had more total water available. Water supply conditions are much below normal.

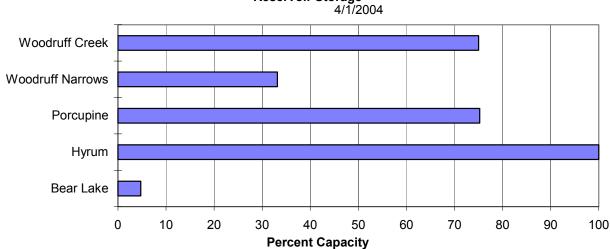
Bear River Snowpack



Bear River Precipitation



Reservoir Storage



BEAR RIVER BASIN

Streamflow Forecasts - April 1, 2004

		 <<=====	Drier ===	=== Futur	e Co	onditions		= Wetter	====>>		
Forecast Point	Forecast Period	====== 90% (1000AF)	70% (1000AF)	50% (M	ost	Exceeding * Probable) (% AVG.)	 	30% (1000AF)	10% (1000AF)	 30-Yr (100	_
Bear River nr UT-WY State Line	APR-JUL	30	44	= ====== 5	=== =	47	! !	62	76		113
Bear River ab Reservoir nr Woodruff	APR-JUL	23	29	1 3	3	24	!	50	75		136
Big Creek nr Randolph	APR-JUL	0.38	0.48	0.5	5	11	!	1.18	2.10	4	. 90
Smiths Fork nr Border	APR-JUL	41	52	1 6	0	58	!	68	79		103
Bear River at Stewart Dam	APR-JUL	4.0	10.0	1 17.	0	7	!	25	40	:	234
Little Bear River at Paradise	APR-JUL	13.9	19.0	2	3	50	!	27	34		46
Logan River nr Logan combined flow	APR-JUL	53	64	 7	2	57	!	81	94		126
Blacksmith Fork nr Hyrum	APR-JUL	12.7	19.0	 2 	4	50	 	30	39		48
BEAR RIVER BASIN BEAR RIVER BASIN Reservoir Storage (1000 AF) - End of March Watershed Snowpack Analysis - April 1,								1, 2004			
Reservoir	Usable Capacity	*** Usabl This Year	e Storage Last Year	•	ater	rshed		Numbe of Data Si		Year as Yr Ave	

Reservoir Storage (1000 AF) - ENG	OI Marci								
Reservoir	Usable Capacity 	This Last		ge *** Avg	Watershed	Number of Data Sites	This Yea ====================================	r as % of Average		
BEAR LAKE	1302.0	61.7	389.1	 	BEAR RIVER, UPPER (abv	На 6	90	62		
HYRUM	15.3	15.3	15.3	12.2	BEAR RIVER, LOWER (blw	На 8	90	60		
PORCUPINE	11.3	8.5	7.9	6.7	LOGAN RIVER	4	87	62		
WOODRUFF NARROWS	57.3	19.0	16.0	32.7	RAFT RIVER	1	172	98		
WOODRUFF CREEK	4.0	3.0	2.4		BEAR RIVER BASIN	14	90	61		

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

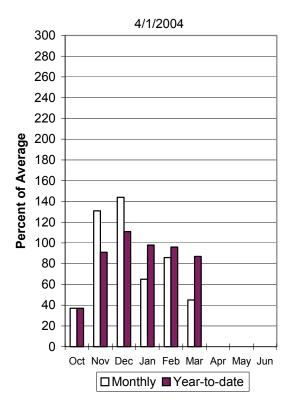
Weber and Ogden River Basins Apr 1, 2004

Snowpack on the Weber and Ogden Watersheds is below normal at 74% of average, about 125% of last year and down 28% relative to last month. Individual sites range from 0% to 119% of average. March precipitation was much below average at 45% bringing the seasonal accumulation (Oct-Mar) to 87% of average. Soil moisture levels in runoff producing areas indicate about 4.2 inches of deficit in the upper 2 feet of soil. Streamflow forecasts range from 31% to 71% of average. Reservoir storage is at 49% of capacity, about 6% less than last year. The Surface Water Supply Index is at 5% for the Weber River and at 23% for the Ogden River. Overall water supply conditions are much below normal due to low snowpack, reservoir storage and soil moisture conditions.

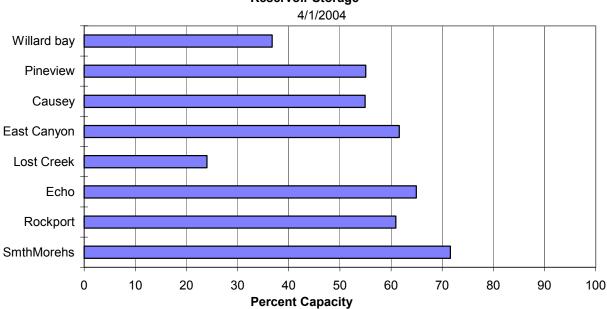
Weber River Snowpack

4/1/2004 40 35 Snow Water Equivalent (in) 30 25 20 15 10 5 1-Feb 1-Mar 1-May 1-Apr Current Average Minimum Maximum

Weber River Precipitation



Reservoir Storage



WEBER & OGDEN WATERSHEDS in Utah

				- April 1, 2				
Forecast Point	Forecast	<<===== 						
	Period	90% (1000AF)	70% (1000AF)	50% (Most	-	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Smith & Morehouse Res inflow	APR-JUL	10.3	14.6	17.5	52	20	25	34
Weber River nr Oakley	APR-JUL	32	47	, 58	47	69	84	123
Rockport Reservoir inflow	APR-JUL	19.0	39	 52	39	 65	85	134
Weber River nr Coalville	APR-JUL	15.0	36	 50	37	 64	85	137
Chalk Creek at Coalville	APR-JUL	9.3	12.1	14.0	31	 21	32	45
Echo Reservoir inflow	APR-JUL	21	50	i 70	39	 90	119	179
Lost Creek Reservoir inflow	APR-JUL	5.0	7.8	10.0	57	 12.5	16.7	17.6
East Canyon Reservoir inflow	APR-JUL	10.5	14.2	 17.0	55	 20	25	31
Weber River at Gateway	APR-JUL	68	126	 165	47	 204	262	355
SF Ogden River nr Huntsville	APR-JUL	23	33	 40	63	 47	57	64
Pineview Reservoir inflow	APR-JUL	45	65	l 78	59	 91	111	133
Wheeler Creek nr Huntsville	APR-JUL	2.50	3.70	 4.50 	71	 5.30 	6.50	6.30

	WEBER & OGDEN WA Reservoir Storage (1000			 	WEBER & OGDEN WATERSHEDS in Utah Watershed Snowpack Analysis - April 1, 2004					
Reservoir		Usable Capacity 	*** Usa This Year	ble Storaç Last Year	ge *** Avg	Watershed	Number of Data Sites		r as % of 	
CAUSEY		7.1	3.9	2.5	2.6	OGDEN RIVER	4	155	79	
EAST CANYON		49.5	30.5	33.0	36.5	WEBER RIVER	9	115	71	
ЕСНО		73.9	48.0	40.4	51.5	WEBER & OGDEN WATERSHI	EDS 12	129	74	
LOST CREEK		22.5	5.4	4.9	14.1					
PINEVIEW		110.1	60.6	55.4	61.7					
ROCKPORT		60.9	37.1	38.9	35.1					
WILLARD BAY		215.0	79.0	118.5	160.9 					

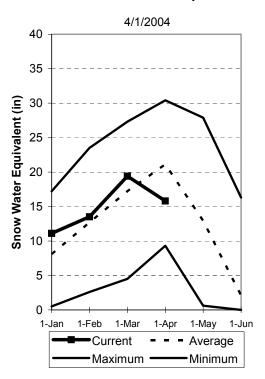
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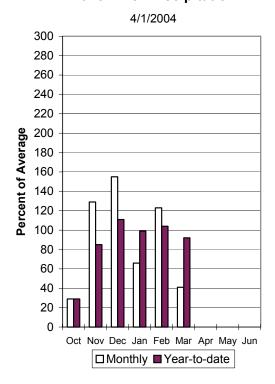
Utah Lake, Jordan River & Tooele Valley Basins Apr 1, 2004

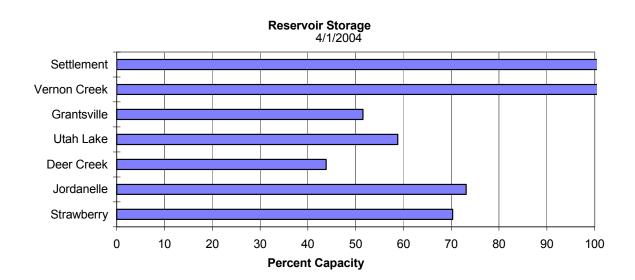
Snowpacks over these watersheds are at 75% of average, 118% of last year and down 36% relative to last month. The upper Provo, the area of greatest water production, is at only 56% of average. Individual sites range from 4% to 119% of average. March precipitation was much below average at 41%, bringing the seasonal accumulation (Oct-Mar) to 92% of average. Soil moisture levels in runoff producing areas indicate about 2.7 inches of deficit in the upper 2 feet of soil. Forecast streamflows range from 35% to 85% of average. Reservoir storage is at 65% of capacity, 5% less than last year. The Surface Water Supply Index is at 9%, or 91% of years would have more total water available. General water supply conditions are below normal due to low snowpack, reservoir storage and soil moisture.

Provo River Snowpack



Provo River Precipitation





UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Streamflow Forecasts - April 1, 2004

		 <<=====	: Drier ====	== Future Co	nditions ==	====== Wetter	====>>	=======
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)	50% (Most (1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Spanish Fork River nr Castilla	APR-JUL	7.7	14.2		44	54	74	77
Provo River nr Woodland	APR-JUL	25	40	l 52	51 I	64	79	103
Provo River nr Hailstone	APR-JUL	15.0	37	 51	47 I	65	87	109
Provo R blw Deer Creek Dam	APR-JUL	20	44	l 64	51 I	84	122	126
American Fk R nr American Fk	APR-JUL	12.2	16.2	 19.0	59 I	22	26	32
Utah Lake inflow	APR-JUL	39	122	 175	54 I	228	310	325
Little Cottonwood Ck nr SLC	APR-JUL	28	31	l 34	85 I	37	40	40
Big Cottonwood Ck nr SLC	APR-JUL	14.8	19.6	l 23	61 I	26	31	38
Mill Creek nr SLC	APR-JUL	3.40	4.93	 6.00	86 I	7.07	8.60	7.00
Parley's Creek nr SLC	APR-JUL	3.3	7.4	 10.5	63 I	13.6	17.5	16.7
Dell Fork nr SLC	APR-JUL	0.61	2.94	 4.40	65 I	5.86	8.20	6.80
Emigration Creek nr SLC	APR-JUL	0.00	0.40	 1.60	36 I	2.80	4.50	4.50
City Creek nr SLC	APR-JUL	0.96	1.62	I 3.00	35 J	4.38	6.40	8.70
Vernon Creek nr Vernon	APR-JUL	0.47	0.61	l 0.72	49 I	0.86	1.10	1.48
Settlement Creek nr Tooele	APR-JUL	0.49	0.72	 0.91	46 I	1.13	1.53	1.97
South Willow Creek nr Grantsville	APR-JUL	0.95	1.60	 2.10 	65 	2.60	3.20	3.23
UTAH LAKE, JORDAN Reservoir Storage (100				 ! !	,	JORDAN RIVER		

•	e (1000 AF) - End				UTAH LAKE, JORDAN RIVER & TOOELE VALLEY Watershed Snowpack Analysis - April 1, 2004					
Reservoir	Usable Capacity 	*** Usa This Year	able Stora Last Year	Avg	Watershed	Number of Data Sites		r as % of 		
DEER CREEK	149.7	62.6	89.2	113.0	PROVO RIVER & UTAH LAKE		96	57		
GRANTSVILLE	3.3	1.7	1.8	2.7	PROVO RIVER	4	110	56		
SETTLEMENT CREEK	1.0	0.6	0.8	0.7	JORDAN RIVER & GREAT SA	LT 6	130	86		
STRAWBERRY-ENLARGED	1105.9	777.4	812.6	648.8	TOOELE VALLEY WATERSHED	s 3	151	88		
UTAH LAKE	870.9	512.2	576.0	855.8 J	UTAH LAKE, JORDAN RIVER	& 16	120	75		
VERNON CREEK	0.6	0.7	0.6							

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

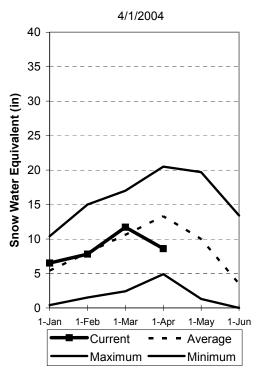
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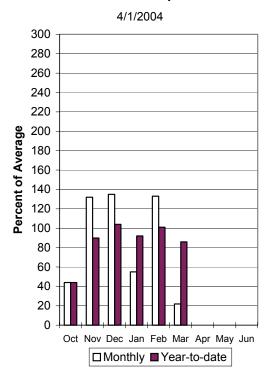
Uintah Basin and Dagget SCD's Apr 1, 2004

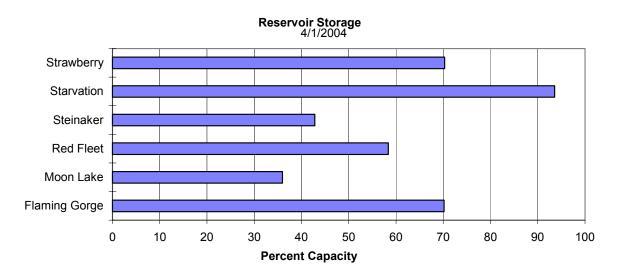
Snowpacks across the Uintah Basin and North Slope areas are much below average at 65%, which is 88% of last year, down 42% relative to last month. The North Slope ranges from 35% to 76% and the Uintah Basin ranges from 32% to 92% of average. Precipitation during March was much below average at 22% bringing the seasonal accumulation (Oct-Mar) to 86% of average. Soil moisture levels in runoff producing areas indicate about 4.6 inches of deficit in the upper 2 feet of soil. Reservoir storage is at 72% of capacity, 2% less than last year. The Surface Water Supply Index for the western area is 45% and for the eastern area it is 27% indicating normal on the west to poor conditions on the east. Streamflow forecasts range between 35% and 77% of average. Springtime runoff conditions are much below normal.

Uintahs Snowpack



Uintahs Precipitation





UINTAH BASIN & DAGGET SCD'S Streamflow Forecasts - April 1, 2004

<-==== Drier ===== Future Conditions ====== Wetter ====>> Forecast Point Forecast Chance Of Exceeding * Period 90% 70% 50% (Most Probable) 30% 10% 30-Yr Avg. (1000AF) (1000AF) (1000AF) (% AVG.) (1000AF) (1000AF) (1000AF) Blacks Fork nr Robertson APR-JUL 37 51 60 63 69 83 95 EF of Smiths Fork nr Robertson APR-JUL 14.3 16.4 18.0 58 19.8 23 31 Flaming Gorge Reservoir Inflow APR-JUL 320 500 620 52 740 920 1190 BIG BRUSH CK abv Red Fleet Resv APR-JUL 7.6 11.6 14.3 68 17.0 21 21 Ashley Creek nr Vernal APR-JUL 18.4 28 35 67 42 52 52 WF DUCHESNE RIVER nr Hanna APR-JUL 6.1 9.3 11.8 49 14.6 19.4 24 DUCHESNE R nr Tabiona APR-JUL 33 46 55 52 64 77 105 UPPER STILLWATER RESV inflow APR-JUL 30 42 51 62 60 72 82 ROCK CK nr Mountain Home APR-JUL 35 46 54 61 62 73 89 DUCHESNE R abv Knight Diversion APR-JUL 48 79 100 53 121 152 188 STRAWBERRY RES nr Soldier Springs APR-JUL 16.2 24 30 51 37 48 59 CURRANT CREEK RESV Inflow APR-JUL 2.9 6.4 8.8 35 11.2 14.7 25 STARVATION RESERVOIR inflow APR-JUL 23 46 61 50 76 99 121 Lake Fork River abv Moon Lake APR-JUL 36 46 52 77 58 68 68 Yellowstone River nr Altonah APR-JUL 27 38 46 74 54 65 62 DUCHESNE R at Myton APR-JUL 68 109 42 150 211 260 Whiterocks River nr Whiterocks APR-JUL 20 32 39 70 47 56 DUCHESNE R nr Randlett APR-JUL 33 65 120 37 218 358 325

	H BASIN & DAGGET S ge (1000 AF) - End		h	 	UINTAH BASIN & DAGGET SCD'S Watershed Snowpack Analysis - April 1, 20					
Reservoir	Usable Capacity		able Stora Last Year	age *** Avg	Watershed Da	Number of ata Sites		r as % of 		
FLAMING GORGE	3749.0	2631.0	2629.0	2920.0	UPPER GREEN RIVER in UTAH	i 6	62	55		
MOON LAKE	49.5	17.8	21.8	30.8 I	ASHLEY CREEK	2	65	58		
RED FLEET	25.7	14.7	12.2	18.8 18.8	BLACK'S FORK RIVER	2	76	63		
STEINAKER	33.4	14.3	10.0	24.2 24.2	SHEEP CREEK	1	39	35		
STARVATION	165.3	154.7	148.8	138.6	DUCHESNE RIVER	11	102	69		
STRAWBERRY-ENLARGED	1105.9	777.4	812.6	648.8	LAKE FORK-YELLOWSTONE CRE	E 4	120	82		
				! !	STRAWBERRY RIVER	4	86	51		
				!	UINTAH-WHITEROCKS RIVERS	2	103	80		
				 	UINTAH BASIN & DAGGET SCI	17	88	65		

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

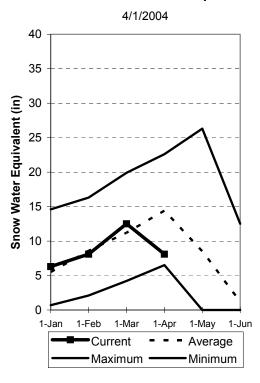
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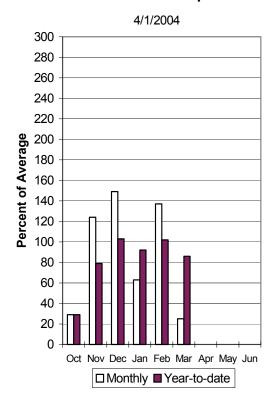
Carbon, Emery, Wayne, Grand and San Juan Co. Apr 1, 2004

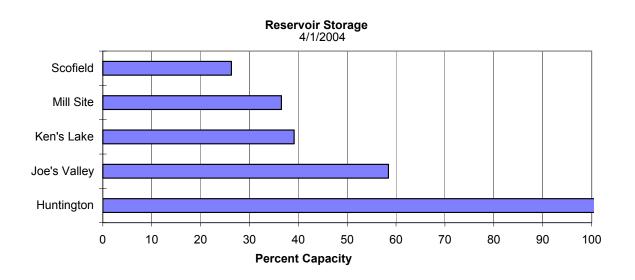
Snowpacks in this region are much below normal at 56% of average, about 73% of last year, down 48% relative to last month. Individual sites range from 0% to 82% of average. Precipitation during March was much below average at 25%, bringing the seasonal accumulation (Oct-Mar) to 86% of normal. Soil moisture levels in runoff producing areas indicate about 3.5 inches of deficit in the upper 2 feet of soil. Forecast streamflows range from 36% to 60% of average. Reservoir storage is at 43% of capacity, up 5% from last year. Surface Water Supply Indeces for the area are: Price 11%, (much below normal) San Rafael area 24% (below average) and Moab 4% (much below average). General runoff and water supply conditions are much below to below normal.

Southeast Utah Snowpack



Southeast Utah Precipitation





CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Streamflow Forecasts - April 1, 2004

		 <<	======================================					
Forecast Point	Forecast Period	======= 90% (1000AF)	70% (1000AF)	50% (Most (1000AF)	Probable) (% AVG.)	30% (1000AF)	10% (1000AF)	 30-Yr Avg. (1000AF)
Gooseberry Creek nr Scofield	APR-JUL	3.2	4.9	6.0	50	7.1	8.8	11.9
Scofield Reservoir inflow	APR-JUL	14.2	18.9	22	48	25	30	46
White River blw Tabbyune Creek	APR-JUL	3.8	6.0	7.8	45	9.8	13.2	17.4
Green River at Green River, UT	APR-JUL	695	1310	1730	55	2150	2760	3170
Electric Lake inflow	APR-JUL	4.8	6.3	7.5	48	8.8	11.0	15.7
HUNTINGTON CK nr Huntington	APR-JUL	17.3	23	26	52	30	35	50
JOE'S VALLEY RESV Inflow	APR-JUL	17.7	28	35	60	42	52	58
Ferron Creek nr Ferron	APR-JUL	14.7	18.3	21	54	24	28	39
Colorado River nr Cisco	APR-JUL	1260	2030	2550	55	3070	3840	4650
Mill Creek at Sheley Tunnel nr Moab	APR-JUL	1.25	1.50	1.75	35	2.80	4.30	5.00
Seven Mile Creek nr Fish Lake	APR-JUL	1.05	2.10	3.60	51	5.10	7.30	7.00
Muddy Creek nr Emery	APR-JUL	5.5	9.4	12.0	60	14.6	18.5	19.9
North Ck ab R.S. nr Monticello	MAR-JUL	0.10	0.19	0.35	36	0.85	1.98	0.97
South Ck ab Lloyd's Res nr Monticell	MAR-JUL	0.14	0.27	0.57	42	0.85	1.36	1.37
Recapture Ck bl Johnson Ck nr Blandi	MAR-JUL	0.50	1.01	2.00	40	3.53	5.63	5.05
San Juan River nr Bluff	APR-JUL	485	700	 850 	69	995 	1215	1230

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Reservoir Storage (1000 AF) - End of March CARBON, EMERY, WAYNE, GRAND, & SAN JUAN Co. Watershed Snowpack Analysis - April 1, 2004

1.0501.011 5001	age (2000 112) = 114	0							
	Usable	*** Usa	ble Stora	ge ***		Number	This Yea	r as % of	
Reservoir	Capacity 	This Year	Last Year	l Avg l	Watershed	of Data Sites	====== Last Yr	Average	
HUNTINGTON NORTH	4.2	4.0	4.2	3.9	PRICE RIVER	3	63	48	
JOE'S VALLEY	61.6	35.1	24.4	41.4	SAN RAFAEL RIVER	3	88	65	
KEN'S LAKE	2.3	0.9	0.9	1.4	MUDDY CREEK	1	82	61	
MILL SITE	16.7	6.1	8.7	86.2	FREMONT RIVER	3	80	68	
SCOFIELD	65.8	17.3	19.3	34.7	LASAL MOUNTAINS	1	42	33	
					BLUE MOUNTAINS	1	65	57	
					WILLOW CREEK	1	57	36	
					CARBON, EMERY, WAYNE,	GRA 13	73	56	

 $[\]star$ 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

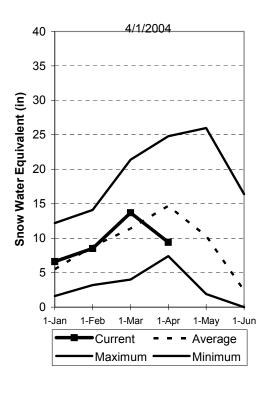
^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

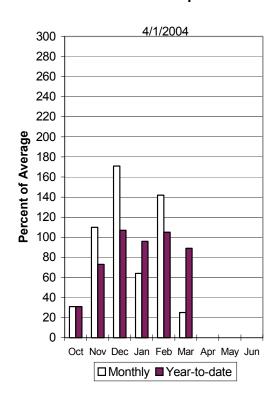
Sevier and Beaver River Basins Apr 1, 2004

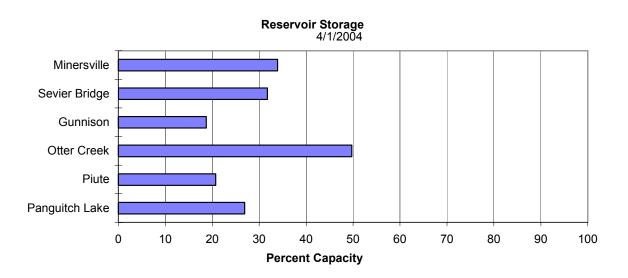
Snowpacks on the Sevier River Basin are above normal at 64% of average, about 182% of last year, down 48% relative to last month. Individual sites range from 0% to 90% of average. Low elevation snowpacks are gone. Precipitation during March was much below average at 25% of normal, bringing the seasonal accumulation (Oct-Mar) to 89% of average. Soil moisture levels in runoff producing areas indicate about 5 inches (Sevier) and 8.5 inches (Beaver) of deficit in the upper 2 feet of soil. Streamflow forecasts range from 16% to 63% of average. Reservoir storage is at 31% of capacity, 3% less than last year. Surface Water Supply Indeces are: Upper Sevier 27%, Lower Sevier 15% and Beaver 11%. Water supply conditions remain much below normal due to low snowpack, reservoir storage and soil moisture.

Sevier River Snowpack



Sevier River Precipitation





SEVIER & BEAVER RIVER BASINS Streamflow Forecasts - April 1, 2004

		 << 	Drier ====	== Future Co	onditions =	===== Wetter	====>>	
Forecast Point	Forecast Period	90% (1000AF)	70% (1000AF)		Probable)	30% (1000AF)	10% (1000AF)	30-Yr Avg. (1000AF)
Sevier River at Hatch	APR-JUL	4.9	16.6	========= 23	42	29	41	55
Sevier River nr Kingston	APR-JUL	9.8	32	 38	43	 44	66	89
EF Sevier R nr Kingston	APR-JUL	3.8	16.2	 24	63	 32	44	38
Sevier R blw Piute Dam	APR-JUL	14.0	46	 67	53	 88	120	126
Clear Creek nr Sevier	APR-JUL	4.2	5.6	9.0	41	1 12.4	19.1	22
Salina Creek at Salina	APR-JUL			 MUCH BELOW	W AVERAGE	! !		19.7
Sevier R nr Gunnison	APR-JUL	50	46	 120	43	 194	325	280
Chicken Creek nr Levan	APR-JUL	0.65	1.09	 1.49	33	 1.97	2.86	4.50
Oak Creek nr Oak City	APR-JUL	0.42	0.63	0.80	48	0.99	1.31	1.66
Beaver River nr Beaver	APR-JUL	9.7	12.1	 14.0	52	16.0	19.4	27
Minersville Reservoir inflow	APR-JUL	0.2	1.1	 2.6 	16	 4.7 	8.9	16.6

SEVIER & BEAV Reservoir Storage (100				SEVIER & BEAVER RIVER BASINS Watershed Snowpack Analysis - April 1, 2004					
Reservoir	Usable Capacity 	*** Usa This Year	ble Storag Last Year		Watershed	Number of Data Sites	This Yea	r as % of Average	
GUNNISON	20.3	3.8	3.6	16.3	UPPER SEVIER RIVER (so	outh 8	100	67	
MINERSVILLE (RkyFd)	23.3	7.9	6.8	17.9	EAST FORK SEVIER RIVER	3	99	72	
OTTER CREEK	52.5	26.1	32.4	43.5	SOUTH FORK SEVIER RIVE	IR 5	101	64	
PIUTE	71.8	14.9	2.5	58.5	LOWER SEVIER RIVER (in	clu 6	63	56	
SEVIER BRIDGE	236.0	74.9	93.5	189.7	BEAVER RIVER	2	103	82	
PANGUITCH LAKE	22.3	6.0	4.0	152.9	SEVIER & BEAVER RIVER	BAS 16	83	64	

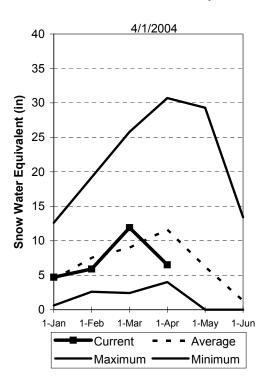
^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.(2) - The value is natural volume - actual volume may be affected by upstream water management.

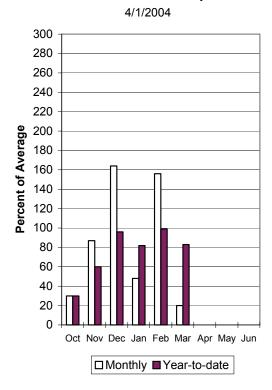
E. Garfield, Kane, Washington, & Iron co. Apr 1, 2004

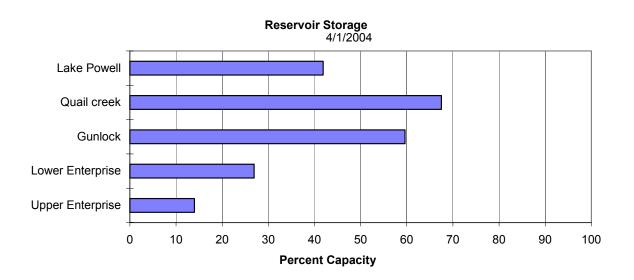
Snowpacks in this region are much below normal at 56% of average, about 103% of last year, down 59% relative to last month. Individual sites range from 0% to 89% of average. Precipitation was much below normal during March at 20% of average, bringing the seasonal accumulation (Oct-Mar) to 83% of normal. Soil moisture levels in runoff producing areas indicate about 4.8 inches of deficit in the upper 2 feet of soil. Forecast streamflows range from 31% to 44% of average. Reservoir storage is at 56% of capacity, 20% more than last year. The Surface Water Supply Index is at 24%, indicating much below normal water availability. Concerns remain over low reservoir storage, soil moisture and low snowpacks.

Southwest Utah Snowpack



Southwest Utah Precipitation





E. GARFIELD, KANE, WASHINGTON, & IRON Co. Streamflow Forecasts - April 1, 2004

<-==== Drier ===== Future Conditions ====== Wetter ====>> Forecast Point Forecast | == Chance Of Exceeding * = Period 90% 70% 50% (Most Probable) 30% 10% 30-Yr Avg. (1000AF) (1000AF) (1000AF) (% AVG.) (1000AF) (1000AF) (1000AF) Lake Powell inflow APR-JUL 1490 2980 4000 50 5020 6510 7930 Virgin River nr Virgin APR-JUL 14.7 22 28 44 35 46 64 Virgin River nr Hurricane APR-JUL 5.8 16.0 23 33 30 40 69 Santa Clara River nr Pine Valley APR-JUL 0.82 1.51 2.10 38 2.79 3.97 5.50 7.1 19.3 Coal Creek nr Cedar City APR-JUL 8.8 10.0 52 11.3 13.4

					· 					
E. GARFIELD, KA Reservoir Storage	•	•	 	E. GARFIELD, KANE, WASHINGTON, & IRON Co. Watershed Snowpack Analysis - April 1, 2004						
Reservoir	Usable Capacity	•	able Stora Last Year		Watershed	Number of Oata Sites	This Yea Last Yr	r as % of		
GUNLOCK	10.4		5.8	4.5	VIRGIN RIVER	5	111	57		
LAKE POWELL	24322.0	10186.0	12458.0		PAROWAN	2	123	82		
QUAIL CREEK	40.0	27.0	15.6	31.0	ENTERPRISE TO NEW HARMON	IY 2	0	0		
UPPER ENTERPRISE	10.0	1.4	0.3	!	COAL CREEK	2	112	68		
LOWER ENTERPRISE	2.6	0.7	0.7	137.1	ESCALANTE RIVER	2	89	74		
				 	E. GARFIELD, KANE, WASHI	n 9	102	56		

^{* 90%, 70%, 30%,} and 10% chances of exceeding are the probabilities that the actual volume will exceed the volumes in the table.

^{(1) -} The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.

^{(2) -} The value is natural volume - actual volume may be affected by upstream water management.

UTAH			
SURFACE	WATER	SUPPLY	INDEX
Snow Surveys	NRCS	USDA	
Basin or Region	SWSI/%	Percentile	Years with
1-Mar-04			Similar SWSI
Bear River	-3.98	2%	2002 02 02 04
	-3. 3 0 -2.1		2003,93,92,91
Ogden River		25%	90,02,00,91
Weber River	-2.4	21%	90,01,91,87
Provo	-2.8	17%	56,03,55,59
West Uintah Basin	1.1	64%	87,02,96,86
East Uintah Basin	0	50%	91,01,97,85
Price River	-1.9	28%	03,89,98,62
San Rafael	0.1	52%	2000,87,74,82
Moab	5	44%	82,97,00,96
Upper Sevier River	-1.1	37%	00,67,99,66
Lower Sevier River	-1.3	35%	72,78,90,01
Beaver River	-1.5	32%	91,92,2001,65
Virgin River	0.2	54%	86.94,01,97
Snow Surveys			SWSI Scale: -4 to 4 Percentile: 0 -
245 N Jimmy Doolittle Ro Salt Lake City, UT (801) 524-5213	d		100%

What is a Surface Water Supply Index?

The Surface Water Supply Index (SWSI) is a predictive indicator of total surface water availability within a watershed for the spring and summer water use seasons. The index is calculated by combining pre-runoff reservoir storage (carryover) with forecasts of spring and summer streamflow which are based on current snowpack and other hydrologic variables. SWSI values are scaled from +4.1 (abundant supply) to -4.1 (extremely dry) with a value of zero (0) indicating media water supply as compared to historical analysis. SWSI's are calculated in this fashion to be consistent with other hydroclimatic indicators such as the Palmer Drought Index and the Precipitation index.

Utah Snow Surveys has also chosen to display the SWSI as a PERCENT CHANCE OF NON-EXCEEDANCE. While this is a very cumbersome name, it has the simplest application. It can be best thought of as a simple scale of 1 to 99 with 1 being the drought of record (driest possible conditions) and 99 being the flood of record (wettest possible conditions) and a value of 50 representing average conditions. This rating scale is a percentile rating as well, for example a SWSI of 75% means that this years water supply is greater than 75% of all historical events and that only 25% of the time has it been exceeded. Conversely a SWSI of 10% means that 90% of historical events have been greater than this one and that only 10% have had less total water supply. This scale is far more intuitive for most people and is totally comparable between basins: a SWSI of 50% means the same relative ranking on watershed A as it does on watershed B, which may not be strictly true of the +4 to -4 scale.

For more information on the SWSI go to: www.ut.nrcs.usda.gov/snow/ on the water supply page. The entire period of historical record for reservoir storage and streamflow is available.

SNOW COURSE DATA

APRIL 2004

SNOW COURSE	ELEV.	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 71-00
AGUA CANYON SNOTEL ALTA CENTRAL	8900 8800	4/01 3/30	8 76	2.2 34.0	2.5 27.2	7.1 37.3
BEAVER DAMS SNOTEL	8000	3/30 4/01	-	0.3	7.5	10.5
BEAVER DIVIDE SNOTEL		4/01	2	0.4	5.6	10.6
BEN LOMOND PK SNOTEL	8000	4/01	69	33.2	23.2	41.5
BEN LOMOND TR SNOTEL	6000	4/01	46	18.9	8.2	19.5
BEVAN'S CABIN	6450	3/30	32	12.7	7.4	11.6
BIG FLAT SNOTEL	10290	4/01	49	14.5	14.7	19.0
BIRCH CROSSING BLACK FLAT-U.M. CK S	8100 9400	3/29 4/01	3 14	1.1 5.6	3.6 8.7	5.4 10.3
BLACK'S FORK GS-EF	9340	3/29	17	7.0	10.0	9.7
BLACK'S FORK JUNCTN	8930	3/29	16	6.4	8.3	9.3
BOX CREEK SNOTEL	9800	4/01	28	11.0	12.2	13.7
BRIAN HEAD	10000	3/28	38	15.9	15.7	21.1
BRIGHTON SNOTEL	8750	4/01	44	15.4	17.7	25.4
BRIGHTON CABIN	8700	3/31	48	20.3	19.7	27.8
BROWN DUCK SNOTEL	10600	4/01	50	16.7	13.0	18.2
BRYCE CANYON BUCK FLAT SNOTEL	8000 9800	4/01 4/01	0 32	0.0 11.2	0.0 13.9	3.8 18.7
BUCK PASTURE	9700	3/29	32 37	10.4	14.3	16.7
BUCKBOARD FLAT	9000	3/30	27	9.0	10.0	12.4
BUG LAKE SNOTEL	7950	4/01	36	13.5	16.0	21.2
BURT'S-MILLER RANCH	7900	3/29	0	0.0	5.0	4.9
CAMP JACKSON SNOTEL	8600	4/01	17	7.7	11.9	13.6
CASCADE MOUNTAIN SNO		4/01	37	13.7	10.7	-
CASTLE VALLEY SNOTEL		4/01	29	10.1	9.5	14.6
CHALK CK #1 SNOTEL	9100	4/01	42	16.1	18.7	24.9
CHALK CK #2 SNOTEL CHALK CREEK #3	8200 7500	4/01 3/29	34 4	11.3 1.0	15.1 5.7	16.2 6.9
CHEPETA SNOTEL	10300	3/29 4/01	-	10.3	10.2	14.2
CLAYTON SPRINGS SNTL		4/01	21	9.2	9.8	-
CLEAR CK RIDG #1 SNT		4/01	26	11.5	16.9	19.7
CLEAR CK RIDG #2 SNT	8000	4/01	25	9.5	12.5	14.7
CORRAL	8200	3/28	12	4.2	7.3	9.0
CURRANT CREEK SNOTEL		4/01	9	3.3	3.0	10.2
DANIELS-STRAWBERRY S	8000	4/01	24	9.8	10.3	16.7
DILL'S CAMP SNOTEL	9200	4/01	26 17	9.1	11.1 9.3	14.9
DONKEY RESERVOIR SNO DRY BREAD POND SNTL	9800 8350	4/01 4/01	30	5.0 16.4	10.9	8.7 22.6
DRY FORK SNOTEL	7160	4/01	-	14.4	9.5	18.2
EAST WILLOW CREEK SN		4/01	13	3.0	5.3	8.3
FARMINGTON U. SNOTEL	8000	4/01	82	40.9	23.2	34.3
FARMINGTON LOWER SC	6950	3/30	72	29.8	14.9	25.6
FARMINGTON L. SNOTEL	6780	4/01	56	22.2		
FARNSWORTH LK SNOTEL	9600	4/01	51	17.3	20.5	19.6
FISH LAKE FIVE POINTS LAKE SNO	8700	3/28 4/01	15 40	5.3 15.6	7.4	8.8 17.7
G.B.R.C. HEADQUARTER			30	11.3	11.8 15.2	16.6
G.B.R.C. MEADOWS			52	20.5	19.4	
	7600		41	15.7	13.7	
GEORGE CREEK	8840	3/27	62	26.8	16.8	22.3
GOOSEBERRY R.S.	8400		18	6.8	14.8	
GOOSEBERRY R.S. SNTL		4/01	0	0.0	12.1	
HARDSCRABBLE SNOTEL HARRIS FLAT SNOTEL			-	13.2	9.7 0.3	
HAYDEN FORK SNOTEL	9100	4/01 4/01	1 15	0.2 4.9	14.2	6.7 16.6
HENRY'S FORK	10000	3/29	19	5.2	10.6	
HEWINTA SNOTEL	9500		13	5.8	10.3	12.1
HICKERSON PARK SNTL		4/01	10	2.7	6.9	7.7
HIDDEN SPRINGS	5500		1	0.3	0.0	2.4
HOBBLE CREEK SUMMIT			25	10.5	7.6	13.9
HOLE-IN-ROCK SNOTEL			8	2.7	7.7	
HORSE RIDGE SNOTEL			34	14.3	15.7	
HUNTINGTON-HORSESHOE INDIAN CANYON SNOTEL			46 16	17.5 5.6	17.5 10.2	24.0 11.9
JOHNSON VALLEY	8850		8	2.6	7.4	7.1
JONES CORRAL G.S.			32	9.1	11.1	
KILFOIL CREEK	7300	3/29	39	14.9	9.9	14.4

SNOW COURSE	ELEV.	DATE	DEPTH	WATER CONTENT		
KILLYON CANYON	6300	3/30	3	1.3	0.0	5.6
KILLYON CANYON KIMBERLY MINE SNOTEL	9300	4/01	26	10.0	15.4	16.7
KING'S CABIN SNOTEL	8730	4/01	11	5.7	11.6	11.3
KLONDIKE NARROWS	7400	3/29	29	12.5	12.9	19.2
KOLOB SNOTEL	9250	4/01	39	14.4	13.3	23.9
LAKEFORK #1 SNOTEL		4/01	32	10.6	9.6	12.7
LAKEFORK BASIN SNTL	10900		51	13.9	12.8	20.7
LAKEFORK MOUNTAIN #3		3/29	6	2.4	5.0	6.0 16.1
LAMBS CANYON	7400	3/31	29	11.7		
LASAL MOUNTAIN LOWER			10	4.0	9.2	9.8
LASAL MOUNTAIN SNTL		4/01	11	4.4		
LILY LAKE SNOTEL	9050	4/01	18	7.0 11.1	12.0	13.5 9.5
LITTLE BEAR LOWER		3/29	26 -		2.7	9.5
LITTLE BEAR SNOTEL LITTLE GRASSY SNOTEL			_	2.8 0.0	0.0	12.3 .7
	8000	4/01		0.0	0.0	
LONG VALLEY JCT. SNT		•	-	0.0	0.0	7.5 3.2
LOOKOUT PEAK SNOTEL		4/01	_	28.2	20.3	24.3
LOST CREEK RESERVOIR		•	0	0.0	.3	2.0
LOUIS MEADOW SNOTEL		4/01	24	12.5	8.1	
MAMMOTH-COTTONWD SNT		4/01	20	12.5 9.5	4- 4	01.0
MERCHANT VALLEY SNTL		4/01 4/01 3/30	30	12.1	11.1	13.4 14.0
MIDDLE CANYON	7000	3/30	33	12.1 13.8	8.9	14.0
MIDWAY VALLEY SNOTEL			53	22.5	17.1	25.3
MILL CREEK	6950	3/31	51	22.5 19.5	12.2	25.3 20.6
MILL-D NORTH SNOTEL		4/01	_	18.0	15.6	25.5
MILL-D SOUTH FORK	7400	4/01 3/31	31	13.5	10.1	25.5 19.1
MINING FORK SNOTEL		4/01 4/01	42 51	19.7	13.1	21.0 30.1
MONTE CRISTO SNOTEL		4/01		21.3	15.5	30.1
MOSBY MTN. SNOTEL	9500	4/01 3/28	26	10.8	10.2	12.1 24.1
MT.BALDY R.S.	9500		51	19.3	20.3	24.1
MUD CREEK #2	8600		31	11.1 10.3	11.1	13.5 12.0
OAK CREEK	7760	3/28				
OAK CREEK PANGUITCH LAKE R.S. PARLEY'S CANYON SNTL	8200	3/28	8 24	2.9	1.1	4.0 17.1
PARLEY'S CANYON SNTL	7500	4/01		7.1	8.9	17.1
PARRISH CREEK SNOTEL		•	62	27.7 11.8	16.5 12.4	-
PAYSON R.S. SNOTEL	8050	4/01				
PICKLE KEG SNOTEL PINE CREEK SNOTEL	8800	4/01 4/01	- -	11.7 18.1	20.2	17.9 24.8
RED PINE RIDGE SNTL				10.1		
REDDEN MINE LOWER			29	11.0	12.0	17.3 17.8
REES'S FLAT	7300	3/28		9.9		12.6
ROCK CREEK SNOTEL	7900	4/01	_	3.6	6 9	Q 1
ROCKY BN-SETTLEMT SN	8900	4/01 4/01	47	22.8	16.9	26.5
SEELEY CREEK SNOTEL	10000	4/01	28	11.7	10.6	15.3
SMITH MOREHOUSE SNTL	7600	4/01	17	6.4	9.0	14.0
SNOWBIRD SNOTEL	9700	4/01	93	42.5	25.9	35.8
SPIRIT LAKE	10300	3/29	27	10.5	11.2	13.8
SQUAW SPRINGS	9300	3/28	13	4.6	7.3	7.1
STEEL CREEK PARK SNO		4/01	38	11.8	12.8	15.9
STILLWATER CAMP	8550	3/29	12	4.6	9.5	10.5
STRAWBERRY DIVIDE SN		4/01	28	10.5	10.3	18.7
SUSC RANCH	8200	3/28	4	2.1	0.9	7.0
TALL POLES	8800	3/28	29	13.0	11.5	14.7
TEMPLE FORK SNOTEL	7410	4/01	29	10.7	14.1	-
THAYNES CANYON SNTL	9200	4/01	45	17.5	17.2	24.9
THISTLE FLAT TIMBERLINE	8500 9100	3/28	32 25	12.3	17.0	16.9
TIMPANOGOS DIVIDE SN		3/28 4/01	41	9.6 16.7	11.5 10.7	14.7 24.0
TONY GROVE LK SNOTEL		4/01	55	27.8	33.1	37.7
TONY GROVE R.S.	6250	3/29	16	5.9	6.0	11.1
TRIAL LAKE	9960	3/29	45	18.6	16.9	24.2
TRIAL LAKE SNOTEL	9960	4/01	39	15.8	13.9	25.3
TROUT CREEK SNOTEL	9400	4/01	18	7.4	8.7	11.2
UPPER JOES VALLEY	8900	3/28	15	5.7	9.0	9.9
VERNON CREEK SNOTEL	7500	4/01	27	9.5	4.4	11.7
VIPONT	7670	3/27	39	16.6	2.8	15.4
WEBSTER FLAT SNOTEL	9200	4/01	16	5.6	7.9	15.9
WHITE RIVER #1 SNTL	8550	4/01	13	4.9	8.9	13.5
WHITE RIVER #3	7400	3/28	0	.0	4.5	6.1
WIDTSOE #3 SNOTEL	9500	4/01	30	10.9	9.0	12.8
WRIGLEY CREEK	9000	3/28	23	8.5	9.6	11.3
YANKEE RESERVOIR	8700	3/30	16	6.1	8.4	10.0



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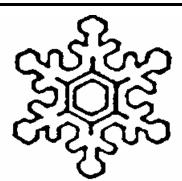
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